

Listing of Claims

This Listing of Claims will replace all prior versions of the Listing of Claims in the present application.

We claim:

1. (cancelled) A pipe assembly connection comprising:
a seated connector having a first cylinder section contiguous with a first lipped portion, said first lipped portion being contiguous with a second cylinder section; and
a base having a threaded end for threaded connection within said seated connector.
2. (cancelled) The pipe assembly connection of Claim 1 wherein said second cylinder section is contiguous with a second lipped portion;
3. (cancelled) The pipe assembly connection of Claim 2 wherein said second lipped portion is contiguous with a terminal section.
4. (cancelled) The pipe assembly connection of Claim 3 wherein said second cylinder section of said seated connector contains threads for direct threaded connection with said base.
5. (cancelled) The pipe assembly connection of Claim 4 wherein said first cylinder section is of wider diameter than said second cylinder section.
6. (cancelled) The pipe assembly of Claim 5 wherein said threaded end of said base is triangularly threaded.
7. (cancelled) The pipe assembly of Claim 6 wherein said threaded end of said base is squarely threaded.
8. (cancelled) The pipe assembly of Claim 7 wherein the end of said base is beveled.
9. (withdrawn) A method of manufacture of a pipe assembly connection comprising the steps of:

extruding said pipe into the appropriate dimension;
cutting said pipe into at least two pieces of the appropriate length;
heating the end of one piece of said pipe to render the end pliable;
forming the end of said one piece of pipe into a shape having a first cylinder section contiguous with a first lipped portion, said first lipped portion being contiguous with a second cylinder section; and
threading the appropriate portions of both pieces of said pipe.

10. (withdrawn) The method of manufacture of the pipe assembly connection of Claim 9 further comprising a cooling step.

11. (withdrawn) The method of manufacture of the pipe assembly connection of Claim 10 wherein said forming step includes forming a second lipped portion contiguous with said second cylinder section.

12. (withdrawn) The method of manufacture of the pipe assembly connection of Claim 11 wherein said forming step includes forming a terminal section contiguous with said second lipped portion.

13. (withdrawn) The method of manufacture of the pipe assembly connection of Claim 12 wherein said threading step includes threading the end of the second piece of pipe.

14. (withdrawn) The method of manufacture of the pipe assembly connection of Claim 13 wherein said threading step includes threading the internal portion of said second cylinder section.

15. (withdrawn) The method of manufacture of the pipe assembly connection of Claim 14 wherein in said forming step said first cylinder section is formed larger in diameter than said second cylinder section.

16. (withdrawn) The method of manufacture of the pipe assembly connection of Claim 15 wherein said threading step involves using triangular threads.

17. (withdrawn) The method of manufacture of the pipe assembly connection of Claim 16 wherein said threading step involves using square threads.

18. (currently amended) A single piece polyvinyl chloride (PVC) pipe of a predetermined interior diameter that has lateral strength when connected to a similar adjacent PVC pipe, said PVC pipe comprising:

a male end of said PVC pipe which has external threads;

a female end of said PVC pipe having an enlarged exterior diameter;

a first enlarged interior diameter of said PVC pipe at said female end, said first enlarged interior diameter being larger than said predetermined interior diameter and having internal threads to mate with said external threads of ~~said~~ the male end of said similar adjacent PVC pipe;

a second enlarged interior diameter being larger than said first enlarged interior diameter and terminating said PVC pipe at said female end, said second enlarged interior diameter being (a) slightly larger in diameter than said male end of said similar adjacent PVC pipe to receive said male end therethrough; ~~and~~ (b) long enough to provide said lateral strength when connected to said similar adjacent PVC pipe; and (c) long enough to receive a substantial portion of used external threads from said male end of said similar adjacent PVC pipe therein before threading, said used external threads are those threads which are threaded into said interior threads of said first enlarged interior diameter;

said male end of said similar adjacent PVC pipe and said second enlarged interior diameter at said female end funneling said PVC pipe and said similar adjacent PVC pipe together;

said PVC pipe being disconnectable from said similar adjacent PVC pipe and reusable.

19. (cancelled) The PVC pipe of a predetermined interior diameter that has lateral strength when connected to said similar adjacent PVC pipe as recited in Claim 18 wherein said second enlarged interior diameter being of sufficient length to receive a substantial portion of used external threads from said male end of said similar adjacent PVC pipe therein before threading, said used external threads being those threads which are threaded into said internal threads of said first enlarged interior diameter.

20. (previously presented) The PVC pipe as recited in Claim 18 wherein said PVC pipe is of a substantially uniform circumference at the male end.

21. (previously presented) The PVC pipe as recited in Claim 18 wherein said external threads terminate said male end of said PVC pipe.

22. (previously presented) The PVC pipe as recited in Claim 18 wherein said male end or said female end is beveled to aid said funneling.

23. (previously presented) The PVC pipe as recited in Claim 18 wherein said first enlarged interior diameter of said female end PVC pipe is formed by expanding said female end while heated and pliable.

24. (currently amended) The PVC pipe as recited in Claim [19] 18 wherein a connection with said similar adjacent PVC pipe will withstand approximately 1000 pounds of lateral force without leaking if said PVC pipe is a 2 inch diameter PVC pipe or proportionate amounts of lateral force for different diameter PVC pipe.

25. (previously presented) The PVC pipe as recited in Claim 18 wherein said external threads and said internal threads are triangularly threaded.

26. (cancelled) A single piece polyvinyl chloride (PVC) drop pipe that has lateral strength when connected to a similar adjacent PVC drop pipe, said PVC drop pipe comprising:

a male end having external threads;

a female end having an enlarged exterior diameter;

an intermediate section between said male end and said female end having a uniform interior diameter;

a first section at said female end having an interior diameter which is slightly larger than the outer diameter of a male end of said similar adjacent PVC drop pipe to receive said male end of said similar adjacent PVC drop pipe therethrough;

a second section at said female end having internal threads to mate with said external threads of said male end of said similar adjacent PVC drop pipe;

said first section positioned to funnel said male end of said similar adjacent PVC drop pipe to said second section and being long enough to provide lateral strength when said PVC pipe is connected to a similar adjacent PVC drop pipe;

said second section being positioned between said intermediate section and said first section;

said PVC drop pipe being disconnectable from said similar adjacent PVC drop pipe and reusable.

27. (cancelled) The PVC drop pipe as recited in Claim 26 wherein said first section being of sufficient length to receive a substantial portion of used external threads from said male end of said similar adjacent PVC drop pipe therein before threading, said used external threads from said male end of said similar adjacent PVC drop pipe being those threads which are threaded into and interlock with said internal threads of said second section.

28. (cancelled) The PVC drop pipe as recited in Claim 26 wherein said PVC drop pipe is of a substantially uniform circumference at said male end.
29. (cancelled) The PVC drop pipe as recited in Claim 26 wherein said external threads terminate said male end of said PVC drop pipe.
30. (cancelled) The PVC drop pipe as recited in Claim 26 wherein said male end or said female end is beveled to aid said funneling.
31. (cancelled) The PVC drop pipe as recited in Claim 26 wherein said first section and said second section at said female end of said PVC drop pipe are formed by expanding said female end while heated and pliable.
32. (cancelled) The PVC drop pipe as recited in Claim 26 wherein said external threads and said internal threads are tapered.
33. (cancelled) The PVC drop pipe as recited in Claim 26 wherein a connection with said similar adjacent PVC drop pipe will withstand approximately 1000 pounds of lateral force without leaking if said PVC drop pipe is a 2 inch diameter PVC drop pipe or proportionate amounts of lateral force for different diameter PVC drop pipe.
34. (cancelled) The PVC drop pipe as recited in Claim 26 wherein said external threads and said internal threads are squarely threaded.
35. (cancelled) The PVC drop pipe as recited in Claim 26 wherein said external threads and said internal threads are triangularly thread.
36. (cancelled) A single piece polyvinyl chloride (PVC) drop pipe connectable to a similar adjacent PVC drop pipe said PVC drop pipe comprising:
- a male end having external threads terminating said male end;
 - a female end having an enlarged exterior diameter;

an intermediate section between said male end and said female end having a uniform interior diameter;

a first enlarged interior diameter of said PVC drop pipe at said female end, said first enlarged interior diameter having internal threads to mate with external threads of a male end of said similar adjacent PVC drop pipe, said internal threads and external threads being only those threads necessary to create a watertight seal between said PVC drop pipe and said similar adjacent PVC drop pipe;

a second enlarged interior diameter being larger than said first enlarged interior diameter and terminating said PVC drop pipe at said female end, said second enlarged interior diameter being slightly larger in diameter than said male end of said similar adjacent PVC drop pipe to receive said male end therethrough;

said male end and said enlarged interior diameter at said female end funneling said PVC pipe and said similar adjacent PVC pipe together;

said PVC drop pipe being disconnectable from said similar adjacent PVC pipe and reusable.

37. (cancelled) The PVC drop pipe as recited in Claim 36 further comprising a shoulder between said female end and said intermediate section.

38. (cancelled) The PVC drop pipe as recited in Claim 36 wherein said second enlarged interior diameter being long enough to provide lateral strength when said PVC drop pipe is connected to said similar adjacent PVC drop pipe, said second enlarged interior diameter being long enough to receive a substantial portion of said external threads from said male end of said similar adjacent PVC pipe therein before threading said external threads into said internal threads of said first enlarged interior diameter.

39. (cancelled) The PVC drop pipe as recited in Claim 38 wherein said PVC drop pipe being of a substantially uniform circumference at said male end.

40. (cancelled) The PVC drop pipe as recited in Claim 39 wherein said male end or said female end is beveled to aid in said funneling.

41. (cancelled) The PVC drop pipe as recited in Claim 40 wherein said first enlarged interior diameter and said second enlarged interior diameter are formed by expanding said female end while heated and pliable.

42. (cancelled) The PVC drop pipe as recited in Claim 41 wherein a connection with said similar adjacent PVC drop pipe will withstand approximately 1000 pounds of lateral force without leaking if said PVC drop pipe is a 2 inch diameter PVC drop pipe or proportionate amounts of lateral force for different diameter PVC drop pipe.

43. (cancelled) A single piece polyvinyl chloride (PVC) drop pipe connectable to a similar adjacent PVC drop pipe said PVC drop pipe comprising:

- a male end with external threads terminating said male end;

- a female end with an enlarged exterior diameter;

- an intermediate section between said male end and said female end having a uniform interior diameter;

- a first section at said female end with an interior diameter which is slightly larger than the outer diameter of a male end of said similar adjacent PVC drop pipe to receive said male end of said similar adjacent PVC drop pipe therethrough;

- a second section at said female end having internal threads to mate with said external threads of said male end of said similar adjacent PVC drop pipe, said internal threads and said external threads being only those threads necessary to create a watertight seal between said PVC

drop pipe and said similar adjacent PVC drop pipe when said internal threads and said external threads are mated;

said second section being positioned between said intermediate section and said first section;

said first section positioned to funnel said male end of said similar adjacent PVC drop pipe to said second section;

said PVC drop pipe being disconnectable from said similar adjacent PVC drop pipe and reusable.

44. (cancelled) The PVC drop pipe as recited in Claim 43 further comprising a shoulder between said female end and said intermediate section.

45. (cancelled) The PVC drop pipe as recited in Claim 44 wherein said first section at said female end having sufficient length to provide lateral strength when said PVC drop pipe is connected to a similar adjacent PVC drop pipe, said first section being long enough to receive substantial portion of said external threads of said similar adjacent PVC drop pipe being mated said external threads of said similar adjacent PVC drop pipe with said internal threads of said second section.

46. (cancelled) The PVC drop pipe as recited in Claim 45 wherein said PVC drop pipe is of a substantially uniform circumference at said male end.

47. (cancelled) The PVC drop pipe as recited in Claim 46 wherein said male end or said female end is beveled to aid in said funneling.

48. (cancelled) The PVC drop pipe as recited in Claim 47 wherein said female end of PVC drop pipe is formed by expanding said female end while heated and pliable.

49. (cancelled) The PVC drop pipe as recited in Claim 48 wherein a connection with said similar adjacent PVC drop pipe will withstand approximately 1000 pounds of lateral force without leaking if said PVC drop pipe is two inch diameter PVC drop pipe or a proportionate amounts of lateral force for different diameter PVC drop pipe.

50. (previously presented) A single piece polyvinyl chloride (PVC) drop pipe connectable to a similar adjacent PVC drop pipe, said PVC drop pipe comprising;

- a male end having a substantial uniform circumference and external threads terminating said male end;

- a female end having an enlarged exterior diameter;

- an intermediate section between said male end and said female end having a uniform interior diameter;

- a first section at said female end having an interior diameter which is slightly larger than the outer diameter of a male end of said similar adjacent PVC drop pipe to receive said male end of said similar adjacent PVC drop pipe therethrough;

- a second section at said female end having internal threads to mate with said external threads of said male end of said similar adjacent PVC drop pipe, said internal threads and said external threads being only those threads necessary to create a watertight seal between said PVC drop pipe and said similar adjacent PVC drop pipe when said external threads mate with said internal threads;

- said first section at said female end being of sufficient length to provide lateral strength when connected to said similar adjacent PVC drop pipe, said first section being long enough to receive a substantial portion of said external threads from said male end of said similar adjacent PVC drop pipe before said internal threads and said external threads are mated;

said second section being positioned between said intermediate section and said first section;

said first section positioned to funnel said male end of said similar adjacent PVC drop pipe to said second section;

said PVC drop pipe being disconnectable from said similar adjacent PVC drop pipe and reusable.

51. (previously presented) The PVC drop pipe as recited in Claim 50 wherein said external threads and said internal threads are triangularly threaded.

52. (previously presented) The PVC drop pipe as recited in Claim 51 wherein said male end or said female end is beveled to aid in said funneling.

53. (previously presented) The PVC drop pipe as recited in Claim 52 wherein said female end is formed by expanding said female end while heated and pliable.

54. (previously presented) The PVC drop pipe as recited in Claim 53 wherein a connection with said similar adjacent PVC drop pipe will withstand approximately 1000 pounds of lateral force without leaking if said PVC drop pipe is two inch diameter PVC drop pipe or proportionate amounts of lateral force for different diameter PVC drop pipe.